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The
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The Director of the United States
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Has received an application for a patent for a new and useful invention. The title and description of the invention are enclosed. The requirements of law have been complied with, and it has been determined that a patent on the invention shall be granted under the law.

J1046 U.S. PTO
09/998991
11/29/01



Therefore, this

United States Patent

Grants to the person(s) having title to this patent the right to exclude others from making, using, offering for sale, or selling the invention throughout the United States of America or importing the invention into the United States of America for the term set forth below, subject to the payment of maintenance fees as provided by law.

If this application was filed prior to June 8, 1995, the term of this patent is the longer of seventeen years from the date of grant of this patent or twenty years from the earliest effective U.S. filing date of the application, subject to any statutory extension.

If this application was filed on or after June 8, 1995, the term of this patent is twenty years from the U.S. filing date, subject to any statutory extension. If the application contains a specific reference to an earlier filed application or applications under 35 U.S.C. 120, 121 or 365(c), the term of the patent is twenty years from the date on which the earliest application was filed, subject to any statutory extensions.

Nicholas P. Eodice

Acting Director of the United States Patent and Trademark Office

Debbie M. Purson



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United States Patent
Racz

(10) Patent No.: **US 6,190,372 B1**
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CATHETER CONNECTORInventor: **N. Sandor Racz, Greenfield Center, NY
(US)**Assignee: **Epimed International, Inc.,
Gloversville, NY (US)**Notice: Under 35 U.S.C. 154(b), the term of this
patent shall be extended for 0 days.Appl. No.: **09/134,801**Filed: **Aug. 14, 1998**Int. Cl.⁷ **A61M 25/16; F16B 39/24;
F16B 21/00**U.S. Cl. **604/534; 604/905; 411/512;
411/531; 411/161; 128/912**Field of Search **604/30, 32-34,
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533-537; 128/912; D24/129; 251/4, 7,
8; 411/531, 541, 544, 907, 313, 314, 533,
399, 512, 160-162; 285/2, 89, 104, 105,
109, 123.12, 123, 13, 123.14, 374, 386,
399, 405-416****References Cited****U.S. PATENT DOCUMENTS**

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Primary Examiner—Sharon Kennedy

(74) Attorney, Agent, or Firm—Trask Britt

(57) **ABSTRACT**

Compressible lock washers for use in catheter connectors. One such lock washer (60) includes a support ring (62) and tube engagement flanges (64) extending centrally therefrom, oblique to the ring and each extending from the same side thereof. The tube engagement flanges (64) define a tube receptacle (72) through which a catheter tube (58) may be inserted. Upon compression of the lock washer (60), the tube engagement flanges (64) are forced toward the ring (62), decreasing the diameter of the tube receptacle (72). Thus, during compression of the lock washer (60), the tube engagement flanges (64) engage the catheter tube (58) which runs through the tube receptacle (72), securing the catheter tube within the catheter connector (20) with which the lock washer is associated.

16 Claims, 4 Drawing Sheets

